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### The Singular Value Decomposition in Product Form—[SIAM Journal on ...

A gain of about 50% in the CP-time required for the calculation of the **singular value decomposition** of a general matrix can be achieved by not forming ...  
link.aip.org/link/?SJOCE3/4/216/1 - [Similar pages](#) - [Note this](#)

### Singular value decomposition - Wikipedia, the free encyclopedia

The **singular value decomposition** was originally developed by differential geometers, who wished to determine whether a real bilinear form could be made ...  
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### Singular value decomposition - ALGLIB

The basis of the most popular modern **singular value decomposition** algorithms lies in the matrix reduction to a bidiagonal form by orthogonal transformation ...  
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### Bidiagonal singular value decomposition - ALGLIB

**Singular value decomposition** of a rectangular matrix A of size MxN is its representation in the form of **product**  $A = U W V^T$ , where U is an orthogonal matrix ...  
www.alglib.net/matrixops/other/bdsvd.php - 12k - [Cached](#) - [Similar pages](#) - [Note this](#)

### Singular Value Decomposition

The **singular value decomposition in product form**. SIAM J. Sci. Stat. Comput., 4 (2):216–222, June 1983. 2. Gene H. Golub and Charles F. Van Loan. ...  
www.ll.mit.edu/HPECchallenge/svd.html - 10k - [Cached](#) - [Similar pages](#) - [Note this](#)

### The HK singular value decomposition of rank deficient matrix triplets

approach advocated in [8] for the generalized **singular value decomposition** (GSVD). Hence, we **form** the **product** using adjoints and find two-by-two rotations ...  
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### Efficient Computation of the Singular Value Decomposition with ...

4 The **singular value decomposition in product form** (context) - Cuppen - 1983 2 A serial implementation of Cuppen's divide and conquer algo. ...  
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### Singular Value Decomposition - GNU Scientific Library -- Reference ...

A general rectangular M-by-N matrix A has a **singular value decomposition** ... To **form** the **product**  $U S V^T$  it is necessary to take the transpose of V. A ...  
www.gnu.org/software/gsl/manual/html\_node/Singular-Value-Decomposition.html - 8k -  
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### Analysis of Metabolic Capabilities Using Singular Value ...

**Singular value decomposition** (SVD) of matrices of extreme pathways was used ... V, to **form** an ellipse that is elongated along each **singular** vector of U in ...  
www.biophysj.org/cgi/content/full/84/2/794 - [Similar pages](#) - [Note this](#)

### Accurate Waveform Modeling using Singular Value Decomposition with ...

**forms** is to approximate the waveform with a cumulative ... **Singular Value Decomposition**

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### SSA, SVD, QR-cp, and RBF Model Reduction

RBF (Radial Basis Function) models. For this purpose, the **SVD and QR-cp. matrix** decomposition operations are used in a way similar to how usually **SVD ...**  
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### [PDF] Out-of-Core SVD and QR Decompositions

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The most challenging phase in the out-of-core **SVD** of tall narrow matrices is. the out-of-core **QR** decomposition. Since the input **matrix** is tall and narrow, ...  
[www.cs.tau.ac.il/~stoledo/Pubs/pp01-qr.pdf](http://www.cs.tau.ac.il/~stoledo/Pubs/pp01-qr.pdf) - [Similar pages](#) - [Note this](#)

### .NET Matrix Library - Eigenvalues eigenvectors SVD QR determinant ...

Solve linear equations least squares eigenvalues and eigenvectors problems, singular value decompositions **QR matrix** determinant and inverse.  
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### S-PLUS Help Categories

rcond.qr.**Matrix**, Condition Estimation for Matrices from **QR** Decomposition.

rcond.svd.**Matrix**, Condition Number for Matrices from Singular Values ...

[www.uni-muenster.de/ZIV/Mitarbeiter/BennoSueselbeck/s-html/categories/algebra.html](http://www.uni-muenster.de/ZIV/Mitarbeiter/BennoSueselbeck/s-html/categories/algebra.html) - 18k - [Cached](#) - [Similar pages](#) - [Note this](#)

### Singular value decomposition - ALGLIB

This algorithm shows better performance than the **QR** algorithm when working with big matrices. For instance, the square **matrix singular value decomposition ...**

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### A QR-like Reduction for Computing the SVD of a General Matrix ...

A **QR**-like Reduction for Computing the **SVD** of a General **Matrix** Product/Quotient.

[publi-etis.ensea.fr/2003/CDD03/](http://publi-etis.ensea.fr/2003/CDD03/) - 3k - [Cached](#) - [Similar pages](#) - [Note this](#)

### IngentaConnect SIGNIFICANT FUZZY RULES EXTRACTION BY AN SVD-QR ...

In this article, an **SVD-QR**-based approach is proposed to extract the important ... a firing strength **matrix** determined by the membership functions of the ...

[www.ingentaconnect.com/content/tandf/ucbs/2005/00000036/00000006/art00004](http://www.ingentaconnect.com/content/tandf/ucbs/2005/00000036/00000006/art00004) -

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### Singular Value Decomposition

The **SVD** of the bidiagonal **matrix** is computed either by subroutine xBDSQR or by subroutine xBDSQC. xBDSQR uses **QR** iteration when singular vectors are desired ...

[www.netlib.org/lapack/lug/node53.html](http://www.netlib.org/lapack/lug/node53.html) - 17k - [Cached](#) - [Similar pages](#) - [Note this](#)

### [PS] Matrix Computations Assignment SVD-QR iteration for a bidiagonal ...

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**SVD-QR** iteration for a bidiagonal **matrix**. Implement in Matlab the **QR** algorithm for an upper bidiagonal **matrix**. The interface should be. [s,it,G]=svdbid(d,f) ...

[www.mai.liu.se/~laeld/kurser/matrix-comp/svd-bidiag.ps](http://www.mai.liu.se/~laeld/kurser/matrix-comp/svd-bidiag.ps) - [Similar pages](#) - [Note this](#)